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NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

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M.L. 278 (Monthly list of documents released by the NACA during May 1950)

Libraries in most of the important cities throughout the country, as well as libraries of schools, manufacturers, and other organizations dealing with aeronautics, are supplied copies of these publications for reference.

TECHNICAL NOTES

- TN 2070 Knock-Limited Performance of Fuel Blends Containing Ethers.
By: I. L. Drell and J. R. Branstetter.
- TN 2079 Experiments in External Noise Reduction of Light Airplanes.
By: Leo L. Beranek, Fred S. Elwell, John P. Roberts, and C. Fayette Taylor.
- TN 2081 Correlation of Physical Properties with Molecular Structure for Dicyclic Hydrocarbons. I - 2-n-Alkylbiphenyl, 1,1-Diphenylalkane, α,ω -Diphenylalkane, 1,1-Dicyclohexylalkane, and α,ω -Dicyclohexylalkane Series.
By: P. H. Wise, K. T. Serijan, and I. A. Goodman.
- TN 2083 Theoretical Analysis of Various Thrust-Augmentation Cycles for Turbojet Engines.
By: Bruce T. Lundin.
- TN 2086 Hovering and Low-Speed Performance and Control Characteristics of an Aerodynamic-Servocontrolled Helicopter Rotor System as Determined on the Langley Helicopter Tower.
By: Paul J. Carpenter and Russell S. Paulnock.
- TN 2087 Comparison of Theoretical and Experimental Heat Transfer on a Cooled 20° Cone with a Laminar Boundary Layer at a Mach Number of 2.02.
By: Richard Scherrer and Forrest E. Gowen.
- TN 2088 Performance and Load-Range Characteristics of Turbojet Engine in Transonic Speed Range.
By: Bernard Lubarsky.
- TN 2089 A Comparison of the Lateral Controllability with Flap and Plug Ailerons on a Sweptback-Wing Model.
By: Powell M. Lovell, Jr. and Paul P. Stassi.
- TN 2090 Investigation of Spark-Over Voltage - Density Relation for Gas-Temperature Sensing.
By: Robert J. Koenig and Richard S. Cesaro.

- TN 2091 Dynamics of a Turbojet Engine Considered as a Quasi-Static System.
By: Edward W. Otto and Burt L. Taylor, III.
- TN 2093 Formulas and Charts for the Supersonic Lift and Drag of Flat Swept-Back Wings with Interacting Leading and Trailing Edges.
By: Doris Cohen.
- TN 2094 Stress-Strain and Elongation Graphs for Alclad Aluminum-Alloy 24S-T86 Sheet.
By: James A. Miller.
- TN 2095 Application of the Wire-Mesh Plotting Device to Incompressible Cascade Flows.
By: Willard R. Westphal and James C. Dunavant.
- TN 2097 Improvement of High-Temperature Properties of Magnesium-Cerium Forging Alloys.
By: K. Grube, J. A. Davis, L. W. Eastwood, C. H. Lorig, and H. C. Cross.
- TN 2098 The Effects of Stability of Spin-Recovery Tail Parachutes on the Behavior of Airplanes in Gliding Flight and in Spins.
By: Stanley H. Scher and John W. Draper.
- TN 2099 A Method of Calibrating Airspeed Installations on Airplanes at Transonic and Supersonic Speeds by Use of Accelerometer and Attitude-Angle Measurements.
By: John A. Zalovcik.
- TN 2103 Maximum Pitching Angular Accelerations of Airplanes Measured in Flight.
By: Cloyce E. Matheny.
- TN 2106 Evaluation of Several Adhesives and Processes for Bonding Sandwich Constructions of Aluminum Facings on Paper Honeycomb Core.
By: H. W. Eickner.

REPORTS

- Rept. 924 Application of Theodorsen's Theory to Propeller Design.
By: John L. Crigler.
Formerly issued as RM L8F30.
- Rept. 930 An Analytical Method of Estimating Turbine Performance.
By: Fred D. Kochendorfer and J. Cary Nettles.
Formerly issued as RM E8I16.

- Rept. 931 Correlation of Cylinder-Head Temperatures and Coolant Heat Rejections of a Multicylinder, Liquid-Cooled Engine of 1710-Cubic-Inch Displacement.
By: Bruce T. Lundin, John H. Povolny, and Louis J. Chelko.
Formerly issued as RM E8B06 and RM E8B06a.

TECHNICAL MEMORANDUMS

- TM 1266 Preliminary Results from Fatigue Tests with Reference to Operational Statistics.
By: E. Gassner.
- TM 1270 The Gas Kinetics of Very High Flight Speeds.
By: Eugen Sanger.
- TM 1275 The Solution of the Laminar-Boundary-Layer Equation for the Flat Plate for Velocity and Temperature Fields for Variable Physical Properties and for the Diffusion Field at High Concentration.
By: H. Schuh.
- TM 1285 Investigations of the Wall-Shearing Stress in Turbulent Boundary Layers.
By: H. Ludwig and W. Tillmann.

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